Docket No. 2018721-7012094003



CERTIFICATE OF MAILING (37 C.F.R. § 1.8(a))

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date indicated below with sufficient postage as First Class Mail in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date of Deposit: August 27, 2004

Signature of Person Certifying: Printed Name:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Hassan Mostafavi

Serial No.: 10/678,741

Filed: October 3, 2003

For:

METHOD AND SYSTEM FOR

RADIATION APPLICATION

Group Art Unit: 2882

Examiner: Craig E. Church

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with 37 CFR §§ 1.97 and 1.98, the items identified in this Supplemental Information Disclosure Statement ("IDS") are brought to the attention of the Office. The items are listed on the attached forms PTO/SB/08a and PTO/SB/08b.

The items identified in this IDS may or may not be "material" pursuant to 37 CFR § 1.56. The submission thereof by Applicants is not to be construed as an admission that any such patent, publication or other information referred to therein is material or considered to be material (37 CFR § 1.97(h)), or even qualifies as "prior art" under 35 USC § 102 with respect to this invention unless specifically designated by Applicants as such.

1. Timing of the Information Disclosure Statement:

This IDS is believed to be timely in that it is being submitted under 37 CFR § 1.97(b), that is (1) within three months of the filing date of the application, which is not a continued prosecution application filed under § 1.53(d) or (2) within three months of entry of the national stage as set forth in

37 CFI	R § 1.49	; or (3) before the mailing of a first Office action on the merits; or (4) before the mailing of
a first	Office ac	tion after filing a request for continued examination under § 1.114. Thus, no fee is required.
		However, if the undersigned is in error in this regard, Applicant respectfully requests that the Office consider this IDS as filed under 37 CFR § 1.97(c), if applicable, and charge the fee due under 37 CFR §1.17(p) to the deposit account referenced below.
	\boxtimes	However, if the undersigned is in error in this regard, Applicant respectfully requests that the Office consider this IDS as filed under 37 CFR § 1.97(c), if applicable, and a statement under 37 CFR § 1.97(e) is included below, thus no fee is required.
	This II	OS is being submitted under 37 CFR § 1.97(c), that is after mailing of a first Office Action on
the me	rits, but	before a Final Action under 37 CFR § 1.113 or a Notice of Allowance under 37 CFR
§ 1.31	l.	
		The fee due under 37 CFR § 1.17(p) is submitted herewith.
		A statement under 37 CFR § 1.97(e) is included below, thus no fee is required. In the event that this IDS is not received before a Final Action or a Notice of Allowance, then Applicant respectfully requests that the Office consider the filing of these papers to be submitted under 37 CFR § 1.97(d) and charge the fee due under 37 CFR § 1.17(p) to the deposit account below.
	This II	S is being submitted under 37 CFR § 1.97(d), that is after a Final Action under 37 CFR
§ 1.113	or a No	tice of Allowance under 37 CFR § 1.311, but before payment of the issue fee. A statement
under 3	37 CFR	§ 1.97(e) is included below. The fee due under 37 CFR § 1.17(p) is submitted herewith.
	This II	S is being submitted under 37 CFR § 1.97(i), that is after a Final Action under 37 CFR
§ 1.113	or a No	tice of Allowance under 37 CFR § 1.311, but before payment of the issue fee.
		STATEMENT UNDER 37 CFR § 1.97(e):
\boxtimes	Some i	tems contained in this IDS were cited in a communication from a foreign patent office in a
counte	rpart for	eign application not more than three months prior to the filing of this IDS.
	No iten	n contained in this IDS was cited in a communication from a foreign patent office in a
counte	rpart for	eign application, and, to the knowledge of the person signing this statement after making
reason	able inqu	airy, no item of information contained in this IDS was known to any individual designated in
37 CFI	R § 1.56(c) more than three months prior to the filing of this IDS.
2. Cop	oies of th	e Cited Items:
	Copies	of all of the items listed on the attached forms PTO/SB/08a and PTO/SB/08b are enclosed.
\boxtimes	Pursua	nt to 37 CFR § 1.98(a)(2)(i), copies of the following items identified on form PTO/SB/08a
	under t	he heading U.S. Patent Documents (Item Nos. 1-13) are not attached.

\boxtimes	Copies of only the following items listed on the attached forms PTO/SB/08b (Item Nos. 1-6) are
	enclosed.

Copies of the following documents listed in PTO/SB/08a (Item Nos. 14-28) and copies of the following documents listed in PTO/SB/08b (Item Nos. 7-10) were previously cited by the Office or submitted in Information Disclosure Statements in related applications: U.S. Serial No. 09/893,122 filed June 26, 2001; U.S. Serial No. 09/178,383 filed October 23, 1998, now Patent No. 6,621,889; U.S. Serial No. 09/178,384 filed October 23, 1998, abandoned in favor or U.S. Serial No. 09/712,724 filed November 14, 2000, now Patent No. 6,690,965; and U.S. Serial No. 09/178,385 filed October 23, 1998, and accordingly, copies are not included herewith. See 37 C.F.R. § 1.98(d). The Examiner is requested to make these documents of record.

3. Concise Explanation of Relevance:

\boxtimes	A concise explanation of relevance	of the items listed on for	ms PTO/SB/08a and	PTO/SB/08b is
	not given.			

A concise explanation of relevance of some of the items listed on forms PTO/SB/08a and PTO/SB/08b is in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references (copy attached).

4. Related Applications:

Applicant(s) bring to the Office's attention the following related, co-pending application(s):
U.S. Serial No. U.S. Serial No. 09/893,122 filed June 26, 2001; U.S. Serial No. 09/178,383 filed
October 23, 1998, now Patent No. 6,621,889; U.S. Serial No. 09/178,384 filed October 23, 1998,
abandoned in favor or U.S. Serial No. 09/712,724 filed November 14, 2000, now Patent No.
6,690,965; and U.S. Serial No. 09/178,385 filed October 23, 1998.

5. Conclusion:

Citation of the above documents shall not be construed as:

- 1. an admission that the documents are necessarily prior art with respect to the instant invention;
- 2. a representation that a search has been made, other than as described above; and
- 3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

It is respectfully requested that the Examiner indicate consideration of the cited references by returning a copy of the attached forms PTO/SB/08a and PTO/SB/08b with initials or other appropriate

marks. In the unlikely event that the transmittal letter is separated from this document and the U.S. Patent Office determines that an extension and/or other relief is required, Applicants petition for any required relief including extensions of time and authorizes the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 50-2518** referencing 7012094003. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Respectfully submitted,

Dated: 8/27/04

Gerald Char

Registration No. 51,541

Bingham McCutchen LLP Three Embarcadero Center, Suite 1800 San Francisco, California 94111-4067

Telephone: (650) 849-4960 Facsimile: (650) 849-4800

PTO/SB/21 (08-03)

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM Application Number 10/678,741 Filing Date October 3, 2003 First Named Inventor Hassan MOSTAFAVI Art Unit 2882 Examiner Name Craig E. Church

Total Number of Pages in This Submission 2018721-7012094003 Attorney Docket Number ENCLOSURES (check all that apply) After Allowance Communication to Fee Transmittal Form Drawing(s) Group Appeal Communication to Board of Fee Attached Licensing-related Papers Appeals and Interferences Petition Appeal Communication to Group Amendment / Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a After Final Proprietary Information Provisional Application Power of Attorney, Revocation Affidavits/declaration(s) Status Letter Change of Correspondence Address Terminal Disclaimer Other Enclosure(s) Extension of Time Request (please identify below): forms PTO/SB/08a, PTO/SB/08b. Request for Refund 6 references, postcard receipt Express Abandonment Request CD, Number of CD(s) ___ Information Disclosure Statement Certified Copy of Priority Remarks Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Gerald Chan Bingham McCutchen LLP Individual name Signature August 27, 2004 Date

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name —Many R. Zimmerman / //
Signature Date August 27, 2004

This collection of information is required by 37 PR 1.5/The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 V.8.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08A (08-03)

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eperion eduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known Substitute for form1449A-PTO 10/678.741 **Application Number** October 3, 2003 **Filing Date** INFORMATION DISCLOSURE Hassan Mostafavi **First Named Inventor** STATEMENT BY APPLICANT Art Unit 2882 Craig E. Church **Examiner Name** (use as many sheets as necessary) 2018721-7012094003 Sheet 2 Attorney Docket Number

	U.S. PATENT DOCUMENTS					
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines,	
Initials*	No. ¹	Number – Kind Code ² (if known)	MM-DD-YY	Application of Cited Document	Where Relevant Passages or	
					Relevant Figures Appear	
	1	US-4,710,717	12-01-87	Pele et al.		
	2	US-4,895,160	01-23-90	Reents	·	
	3	US-4,971,065	11-20-90	Pearce		
	4	US-5,513,646	05-07-96	Lehrman		
	5	US-5,565,777	10-15-96	Kanayama et al.		
	6	US-5,662,112	09-02-97	Heid		
	7	US-5,993,397	11-30-99	Branson		
	8	US-6,144,874	11-07-00	Du		
	9	US-6,527,443	03-04-03	Vilsmeier et al.		
	10	US-6,661,617 B1	08-26-03	Crampton		
	11	US-6,621,889 B1	09-16-03	Mostafavi		
	12	US-6,724,930 B1	04-20-04	Kosaka et al.		
	13	ÚS-2003/0210812 A1	11-13-03	Khamene et al.		

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ – Number ⁴ – Kind Code ⁵ (if known)	Publication Date MM-DD-YY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶	
	14	WO 98/38908	09-11-98	Schneider Medical Technologies, Inc.			

Examiner's		Date	
Signature]	Considered	
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The collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2.0 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \(^1\) Applicant's unique citation designation number (optional). \(^2\) See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. \(^3\) Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \(^4\) For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \(^5\) Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. \(^6\) Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (08-03)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Complete if Known Substitute for form1449A-PTO **Application Number** 10/678,741 **Filing Date** October 3, 2003 INFORMATION DISCLOSURE **First Named Inventor** Hassan Mostafavi STATEMENT BY APPLICANT **Art Unit** 2882 Craig E. Church **Examiner Name** (use as many sheets as necessary) Sheet 2 2018721-7012094003 Attorney Docket Number

U.S. PATENT DOCUMENTS					
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines,
Initials*	No.1	Number – Kind Code ² (if known)	MM-DD-YY	Application of Cited Document	Where Relevant Passages or
					Relevant Figures Appear
	15	US-5,482,042	01-09-96	Fujita	
	16	US-5,619,995	04-15-97	Lobodzinski	
Í	17_	US-5,622,187	04-22-97	Carol	
	18	US-5,638,819	06-17-97	Manwaring et al.	
	19	US-5,662,111	09-02-97	Cosman	
	20	US-5,820,553	10-13-98	Hughes	
	21	US-5,912,656	06-15-99	Tham et al.	
	22	US-6,076,005	06-13-00	Sontag et al.	
	23	US-6,144,875	11-07-00	Schweikard et al.	
	24	US-6,146,390	11-14-00	Heilbrun et al.	
	25	US-6,272,368	08-07-01	Alexandrescu	
	26	US-6,405,072	06-11-02	Cosman	
	27	US-6,473,635	10-29-02	Rasche	
	28	US-6.501.981	12-31-02	Schweikard et al.	

Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	
Initials*	No. ¹	Country Code ³ – Number ⁴ – Kind Code ⁵ (if known)	MM-DD-YY	Application of Cited	Where Relevant Passages	
				Document	or Relevant Figures Appear	٦
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^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \(^1\) Applicant's unique citation designation number (optional). \(^2\) See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. \(^3\) Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \(^4\) For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \(^5\) Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. \(^6\) Applicant is to place a check mark here if English language Translation is attached.

Considered

Signature

The collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2.0 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE der the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

SHEW & TRAD Substitute for form 1449B-PTO

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet of

Complete if Known			
Application Number	10/678,741		
Filing Date	October 3, 2003		
First Named Inventor	Hassan Mostafavi		
Art Unit	2882		
Examiner Name	Craig E. Church		
Attorney Docket Number	2018721-7012094003		

		NON PATENT LITERATURE DOCUMENTS	
Examiner	Cite	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal,	T ²
Initials*	No.1	serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published	
	1.	ADAMS, W.B. et al. "Correlator Compensation Requirements for Passive Time-Delay Estimation with Moving	
		Source or Receivers" IEEE (April, 1980) ASSP-28(2):158-168	
	2.	BANKMAN, I.N. et al. "Optimal Detection, Classification, and Superposition Resolution in Neural Waveform	
		Recordings" IEEE (August, 1993) 40(8):836-841)	<u>L</u> _
	3.	FEE, M.S. et al. "Automatic Sorting of Multiple Unit Neuronal Signals in the Presence of Anisotropic and non-	
		Gaussian Variability" J. Neuroscience Methods (1996) 69:175-188	L.
	4.	NEVATIA, R. et al. "Human Body Tracking with Articulated Human Body Model" (November, 2002) pgs. 1-3	<u> </u>
	5.	PARADIS, A.L. et al. "Detection of Periodic Signals in Brain Echo-Planar Functional Images" IEEE (January 1, 1997) pgs. 696-697	
	6.	SURAMO, M. P. et al. "Cranio-Caudal Movements of the Liver, Pancreas and Kidneys on Respiration" Acta Radiol.	
		Diagn. (1984) 2:129-131	
	7.	BARONI, G. and G. FERRIGNO "Real-time Motion Analysis for Definition and Control of Patient Position in	
		Radiotherapy" SPIE 0-81942084-0/96 2709:506-515	
	8.	GERIG, L.H. et al."The Development and Clinical Application of a Patient Position Monitoring System" Ottawa	
]	Regional Cancer Centre, General Division, 501 Smyth Rd., Ottawa, Ontario, Canada K1H 8L6; National Research	
	<u> </u>	Council, IIT, Ottawa, Ontario, Canada K1A OR6; SPIE Videometrics III (1994) 2350:59-72	
	9.	LOPRESTI, B.J. et al. "Implementation and Performance of an Optical Motion Tracking System for High Resolution	
		Brain PET Imaging" IEEE Transactions on Nuclear Science (December, 1999) 46(6):2065-2067	
	10.	Preliminary Search Brochure entitled "Kinematic Measurement Systems" by Qualisys printed April 4, 1994	<u> </u>
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^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

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